

Your Local National Weather Service Forecast Offices Save Lives!

**Southeastern Coastal & Atmospheric Processes
Symposium**

Mobile, AL - April 9, 2005

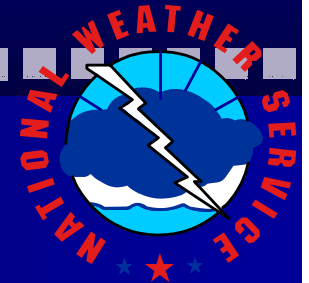
Bill Proenza
Regional Director
National Weather Service
Southern Region

Overview

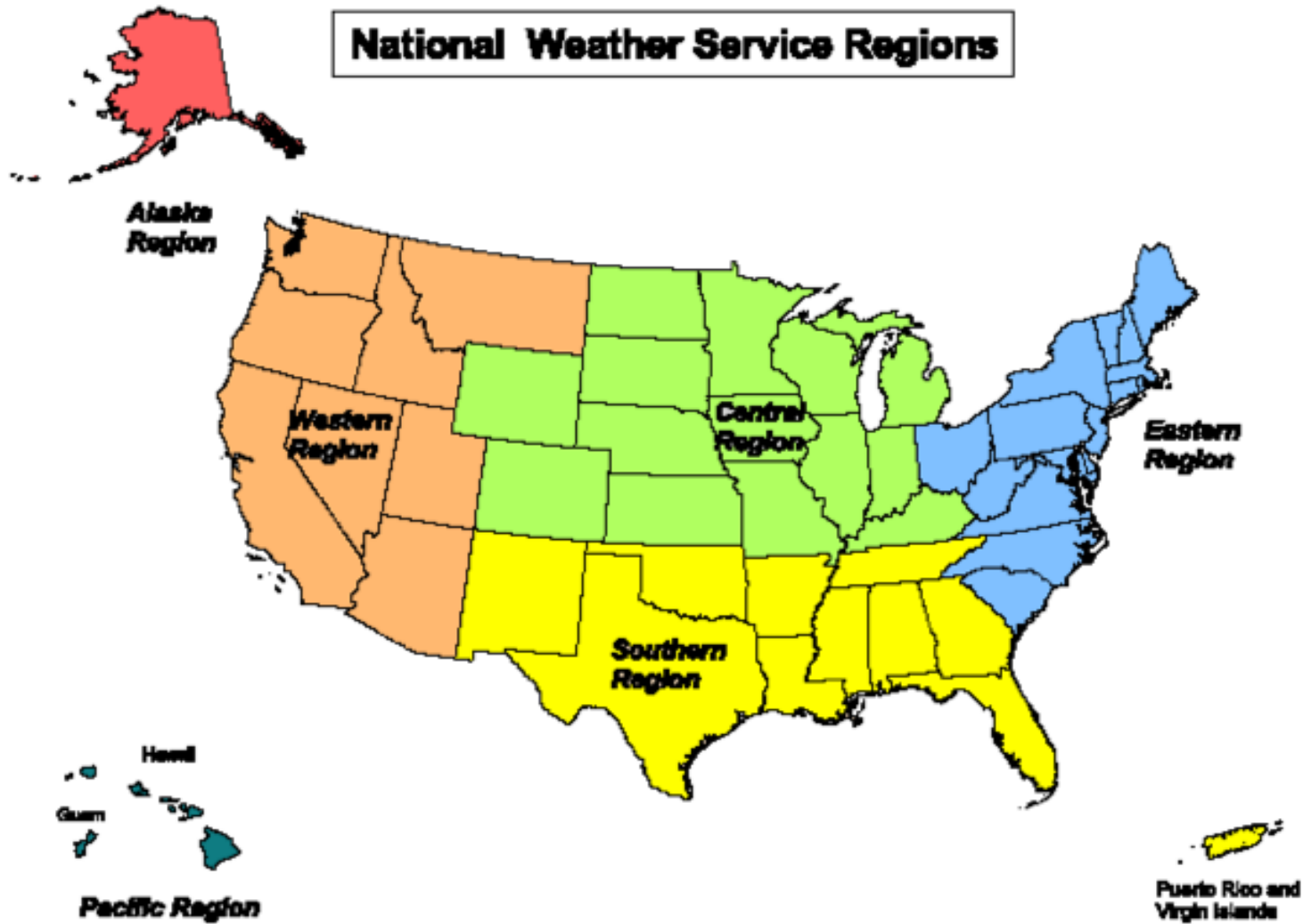
- Your “**Local**” National Weather Service Office Performance in our Severe Weather Active Nation.
- The Tidal Wave aka Tsunami; The Forgotten Danger
- Your Internet: For the Latest in Developing Weather and Warnings



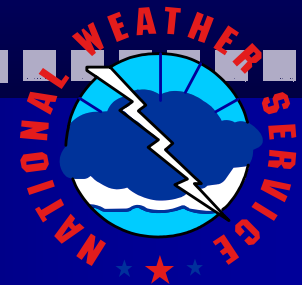
NWS SOUTHERN REGION
www.srh.weather.gov



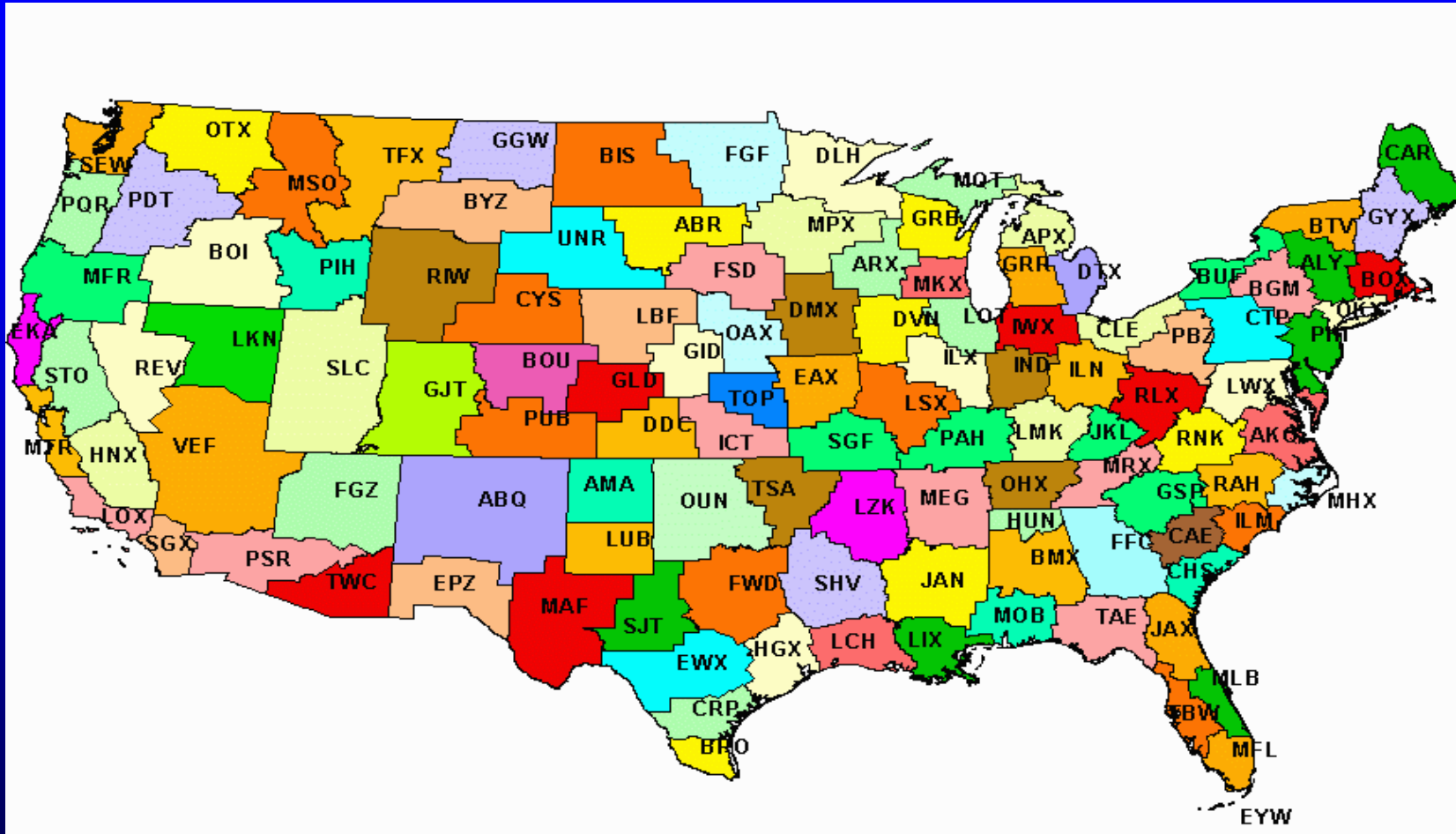
National Weather Service Regions



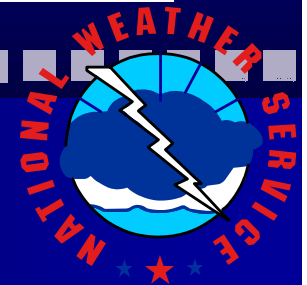
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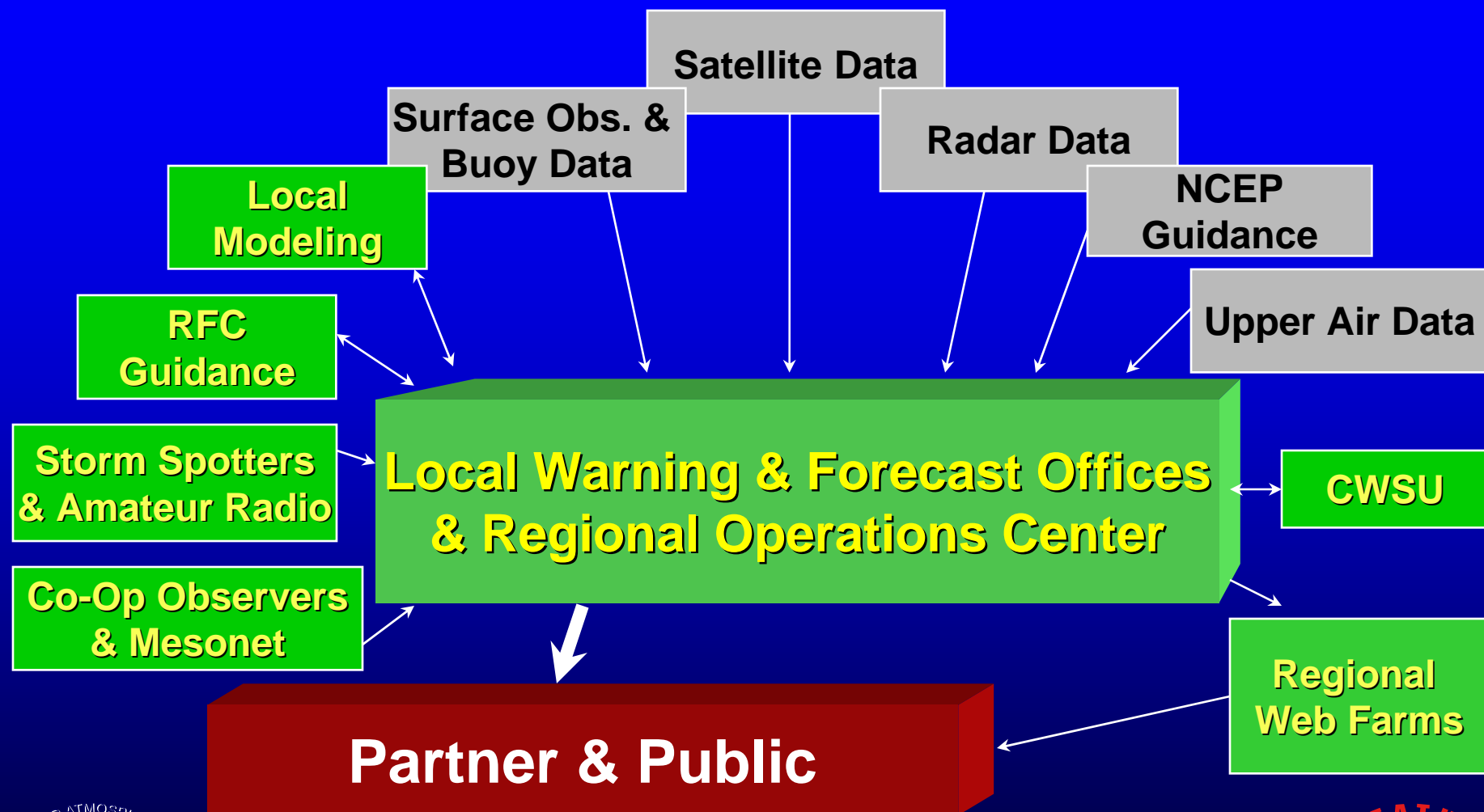
122 NWS Warning Forecast Offices



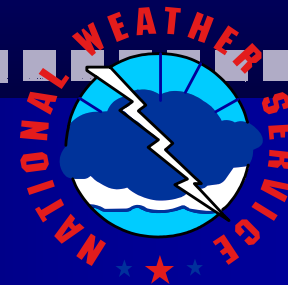
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NWS Information Flow



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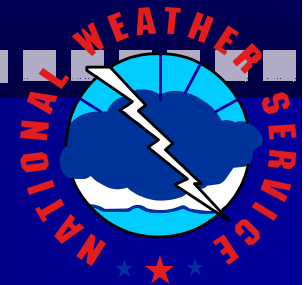


Benefits of Your Local WFO

- Your local source of timely weather warnings, watches, advisories, statements and outlooks.
 - (e.g. TORs, SVSs, SPSs, & HWOs)
- Partner in Community Outreach & Preparedness.
- Local Area Expertise.
- For 24 x 7 weather support in natural and man made (accidental or intentional) events.

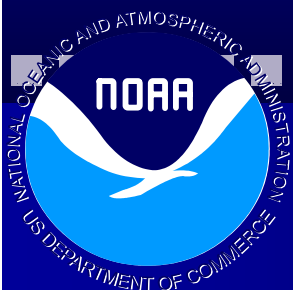


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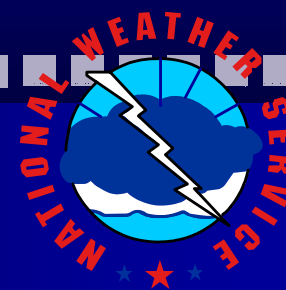


Regional Operations Center

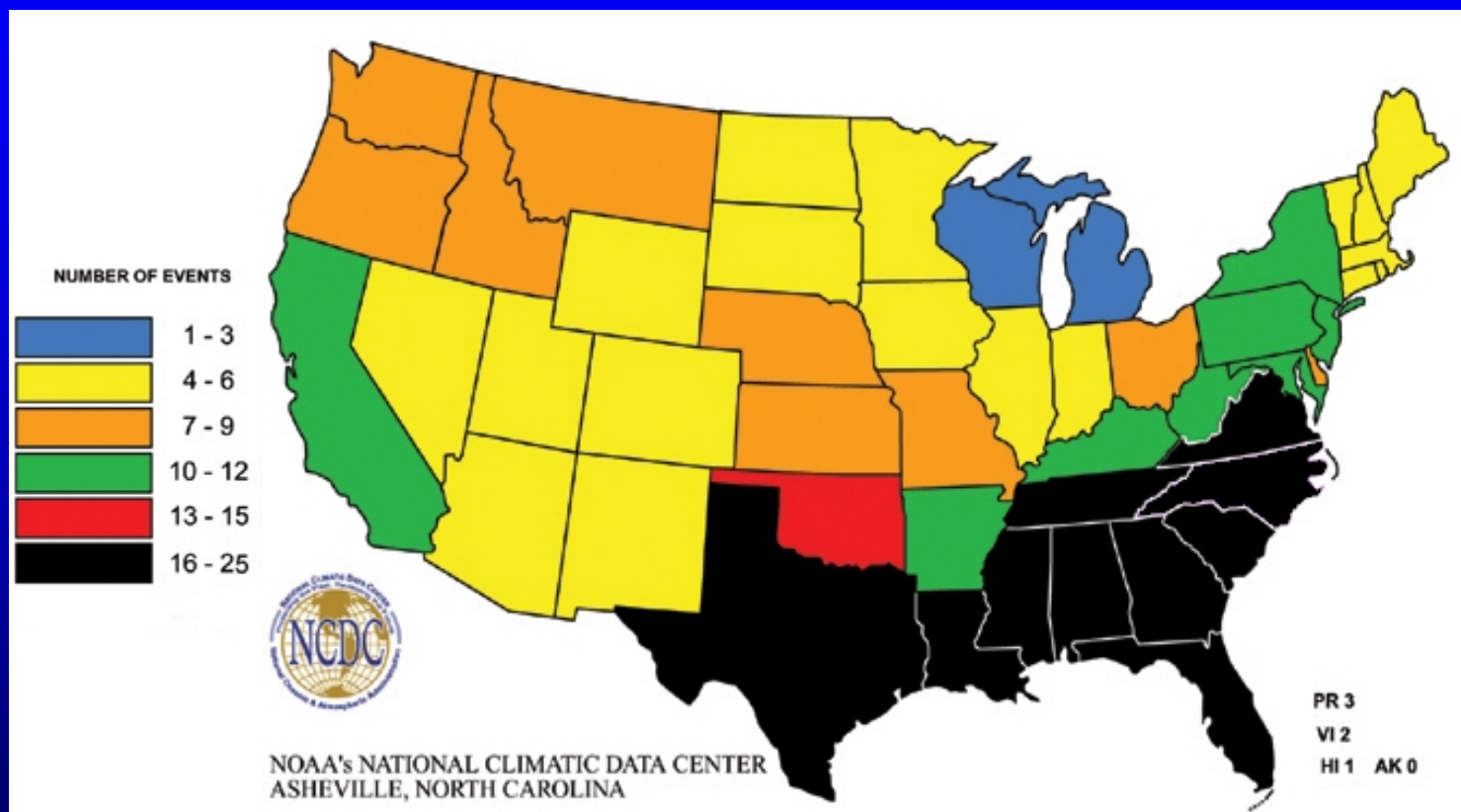
- Federal/State/Local EM briefings
- NWS major weather event coordination
- Special staff deployments to active weather areas.
- Media briefing & Post-event assessment & reporting
- **817-978-1100 x147**



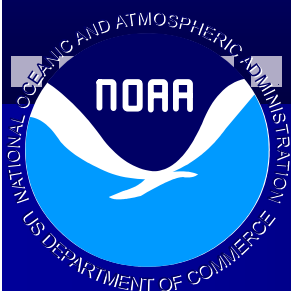
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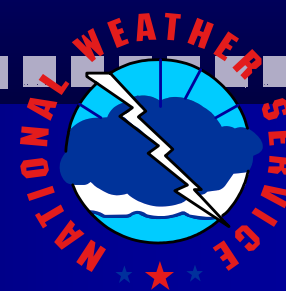
World's Most Active Weather!



Billion Dollar Weather Events, 1980-2004



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U.S. has the most Tornadoes

SR 3,236

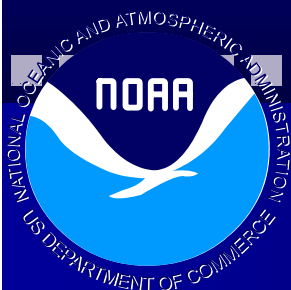
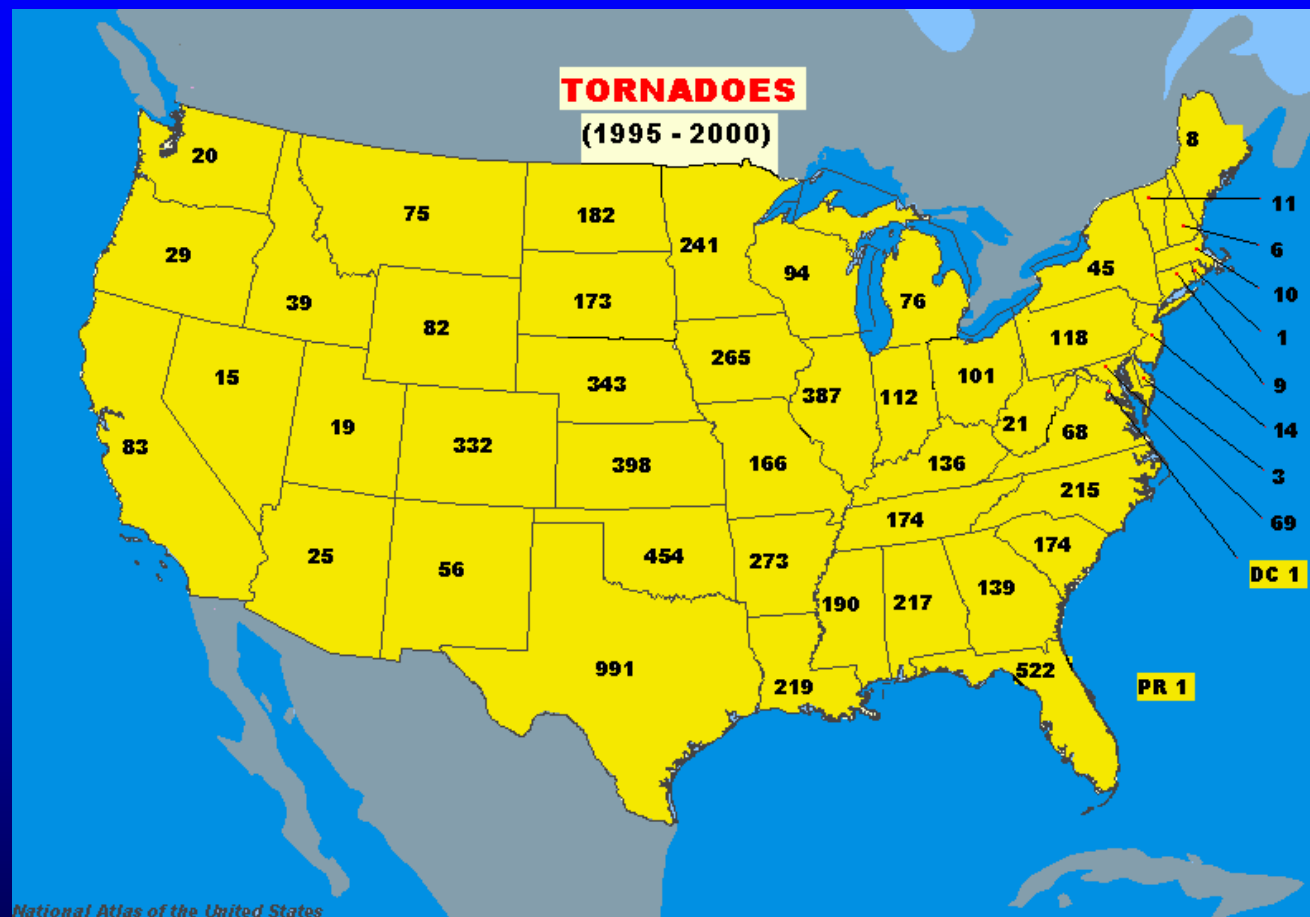
CR 2,987

ER 874

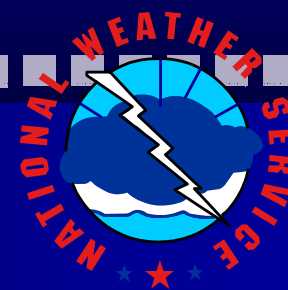
WR 305

TOT 7,402

(1995-2000)



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WFOs & EM Community Save Lives

April 1974 Super Outbreak

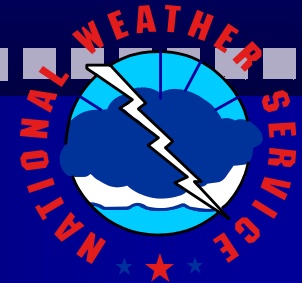
- Single largest 24 hour tornado outbreak
- 148 Tornadoes
- 330 Fatalities
- Up to 5 Minute Lead Time

May 2003 Outbreak

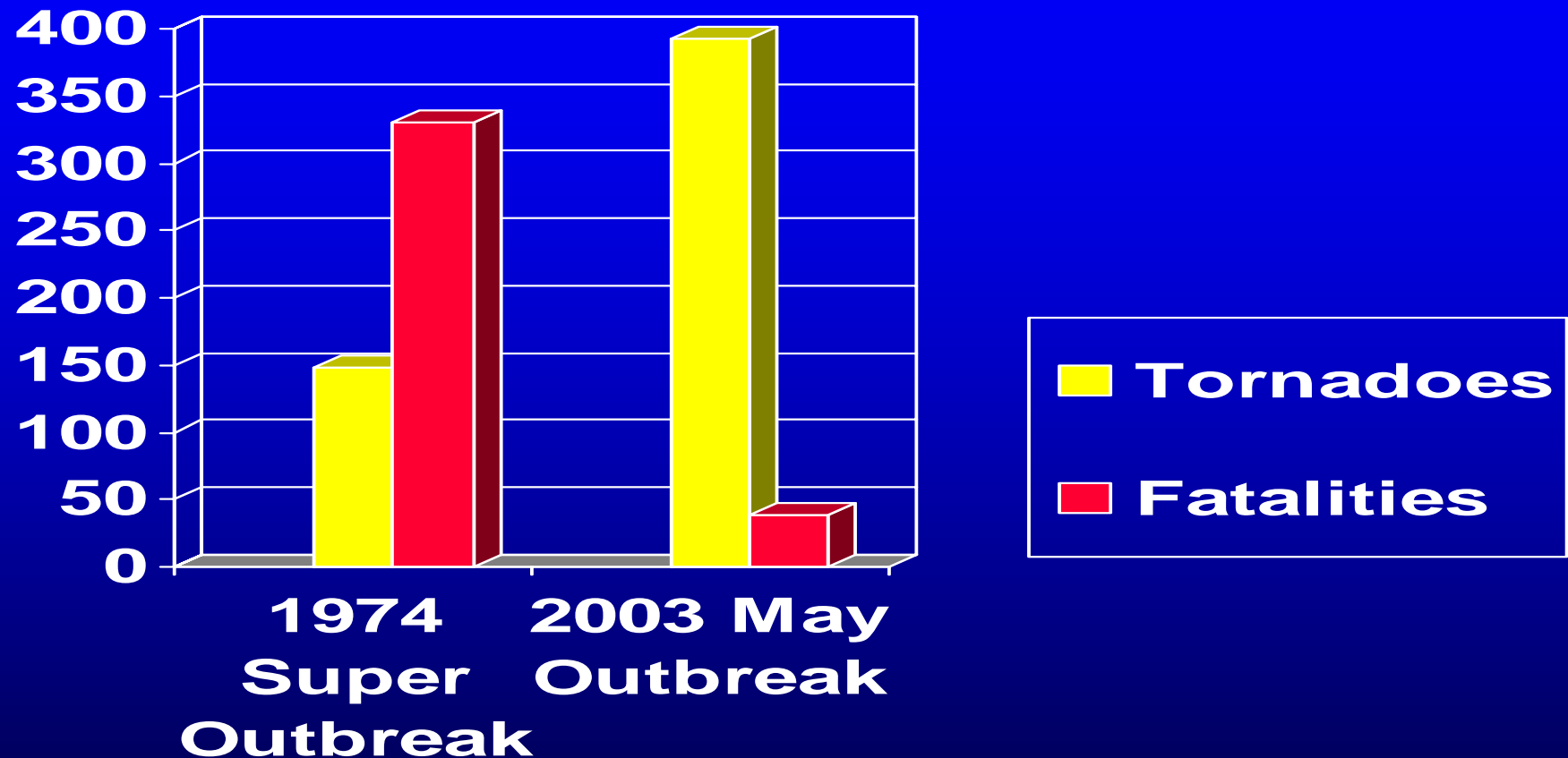
- Unprecedented in size & time (9 days)
- 340 Tornadoes
- 39 Fatalities
- Averaged Over 15 Minute Lead Time



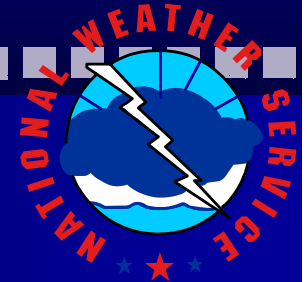
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Local WFOs Save Lives

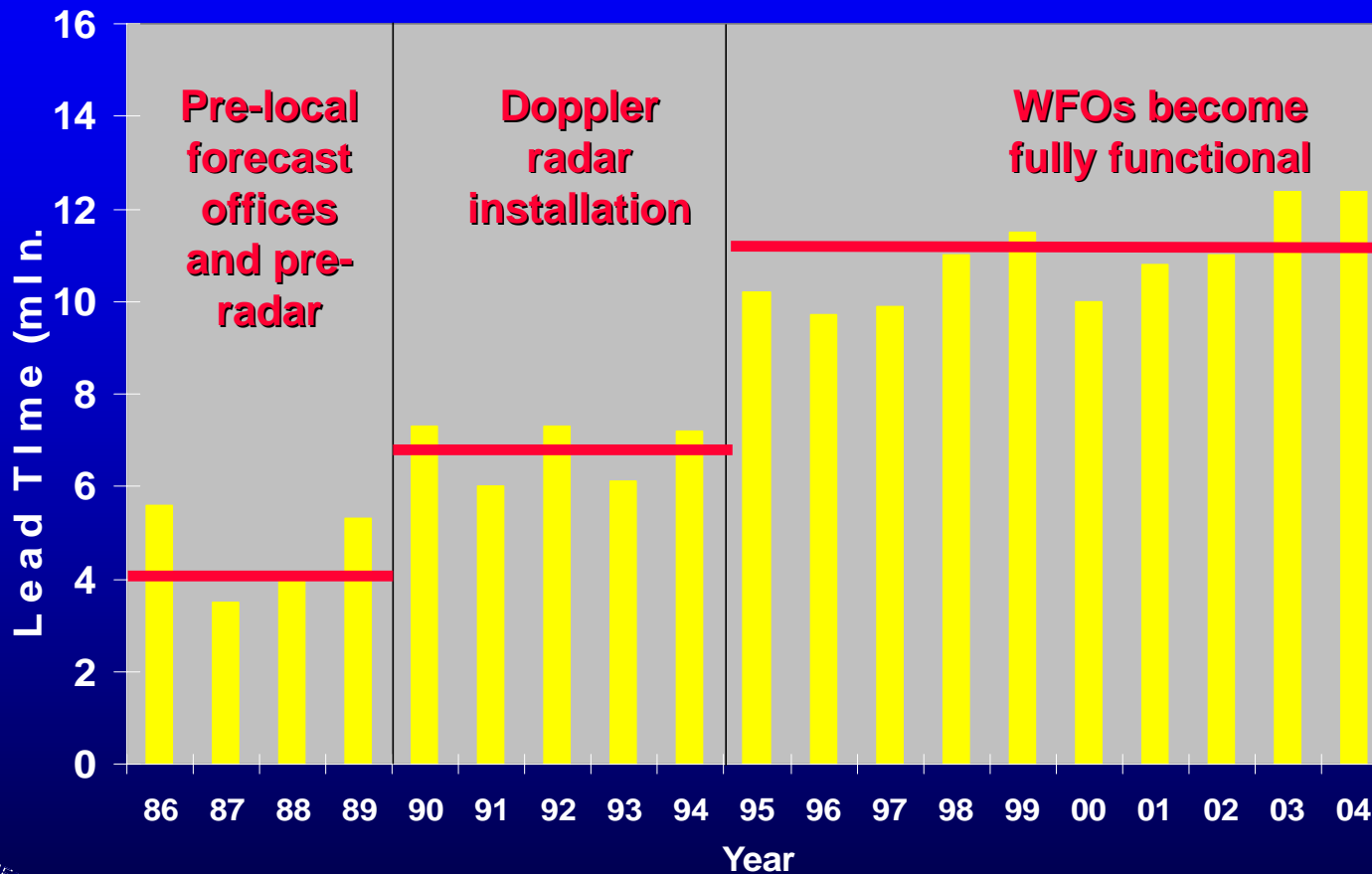


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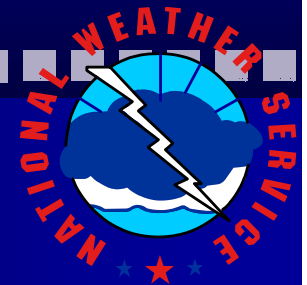


Local WFOs Save Lives

Tornado Warning Lead Time

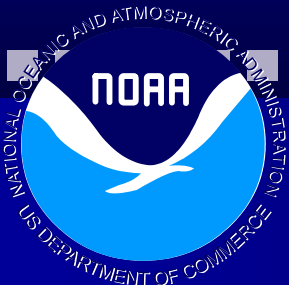
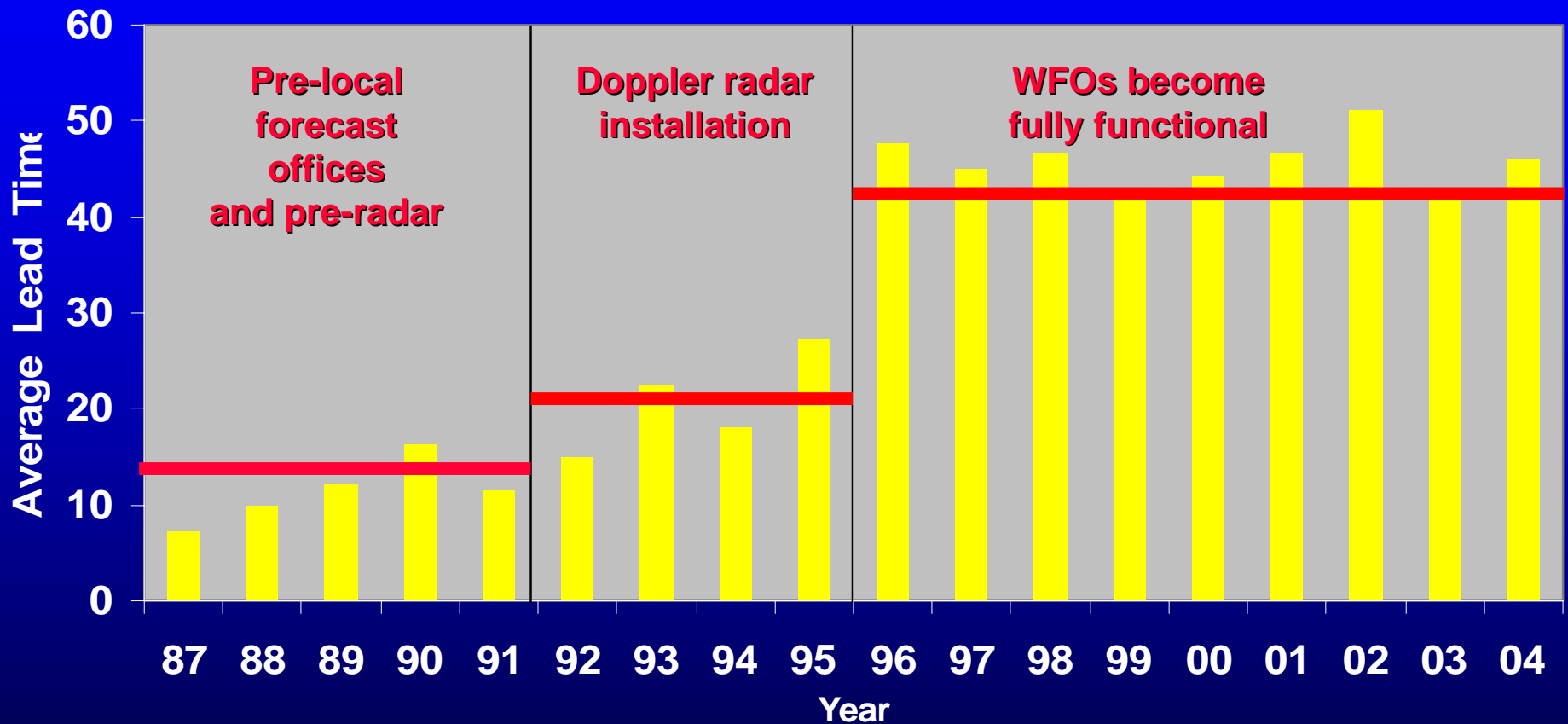


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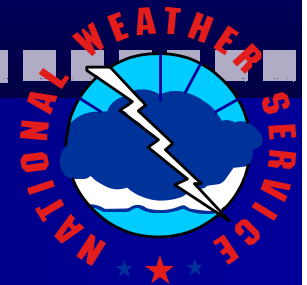


Local WFOs Save Lives

Flash Flood Warning Lead Time



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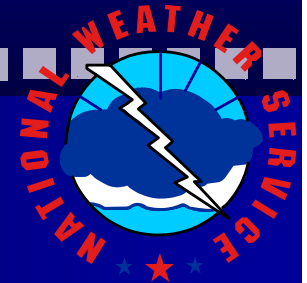


Distribution of Tsunamis in the World's Oceans

Ocean	Number	Percent
Pacific	210	88%
Atlantic	21	9%
Indian	8	3%

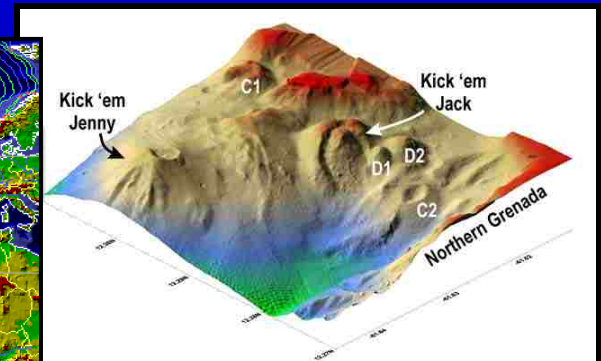
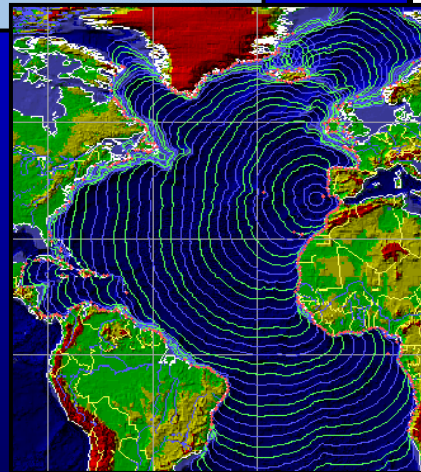
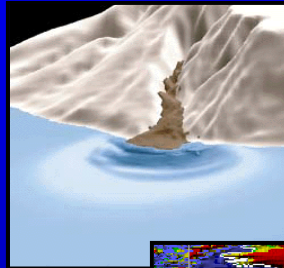


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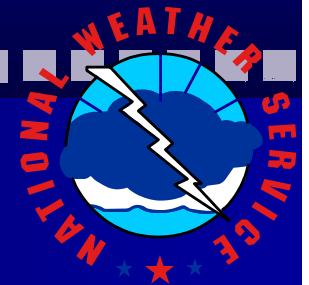


Atlantic Tsunami-genic Events

- Earthquake
- Landslide
(includes possible meg-tsunami e.g. La Palma, Canary Islands)
- Submarine Volcano
- Tele-tsunami



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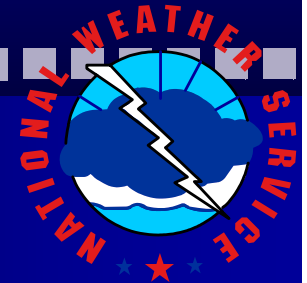


Western North Atlantic Tsunami Fatalities in last 150 Years

Date	Place	Fatalities
1853	Venezuela	600-4,000 (est.)*
1867	Virgin Islands	23
1882	Panama	75-100
1906	Jamaica	500
1918	Puerto Rico	140
1929	Canada	28
1946	Puerto Rico	75
1946	Dominican Republic	1,790
		2,631 TOTAL *not included



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Elements of Tsunami Warning System

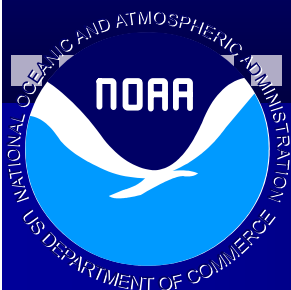
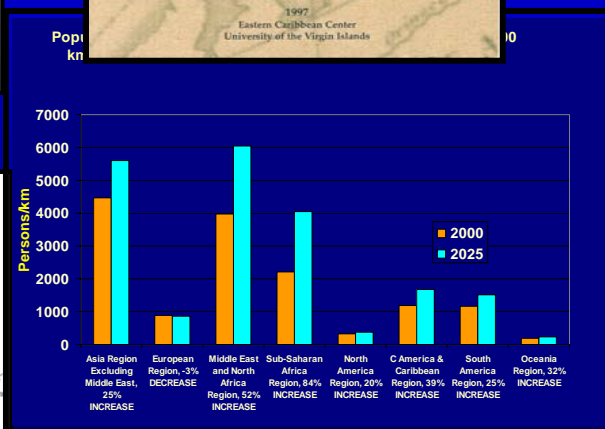
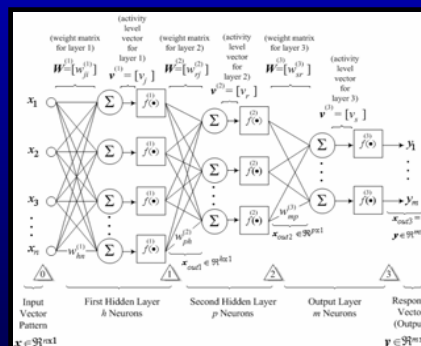
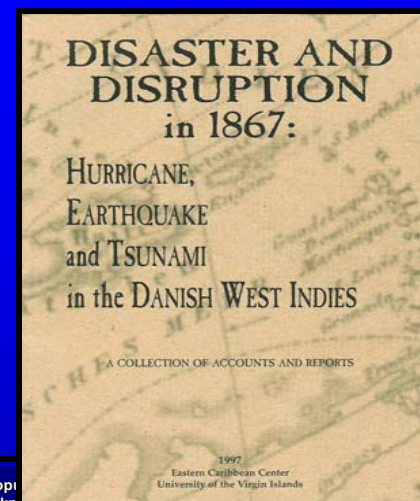
- Education

- Warning

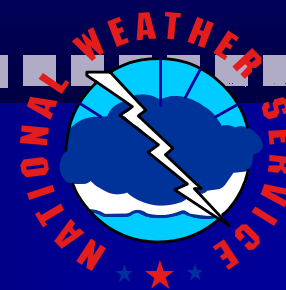
Seismic, Sea Level, Communications

- Community Preparedness

- Research

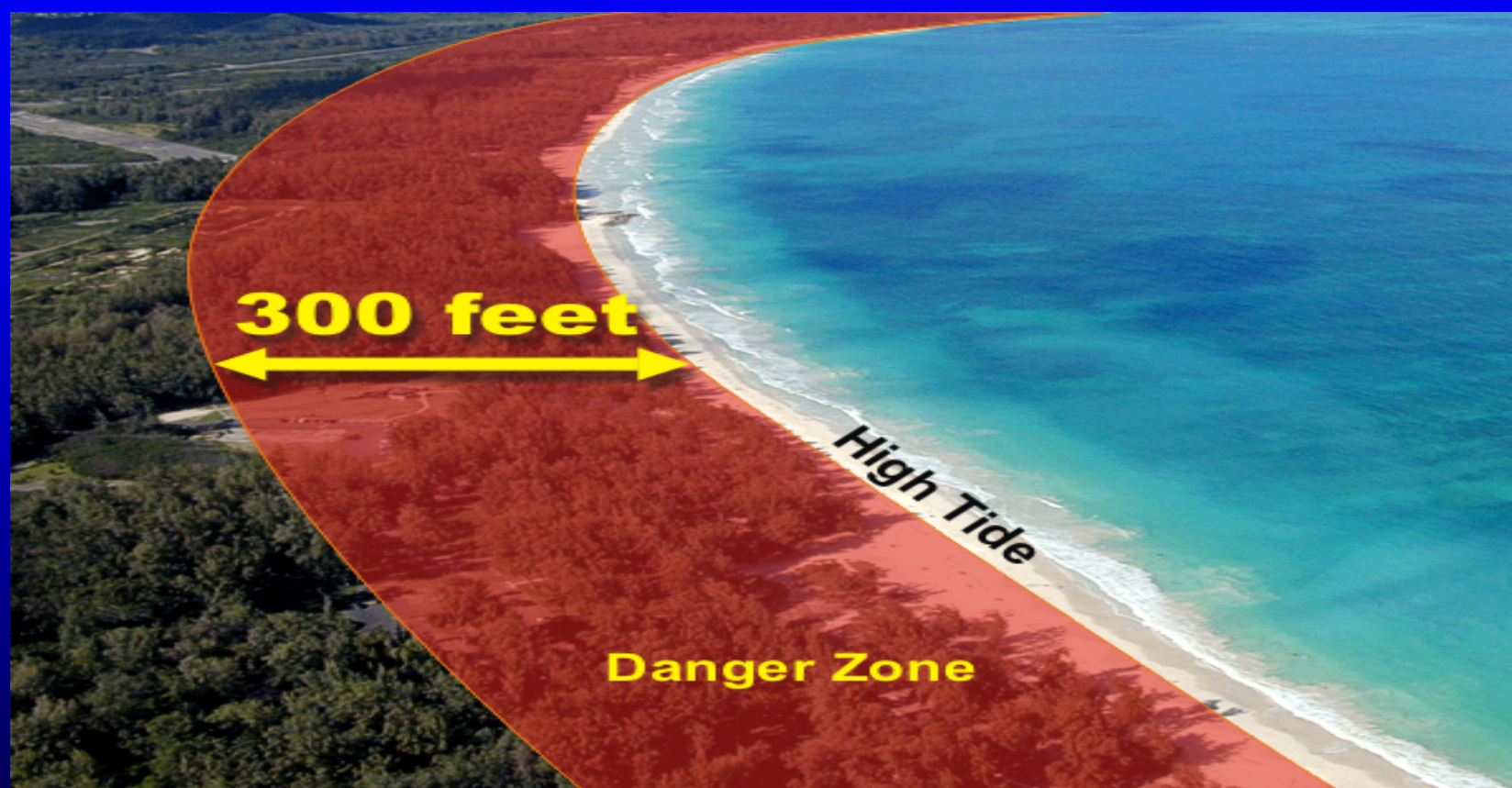


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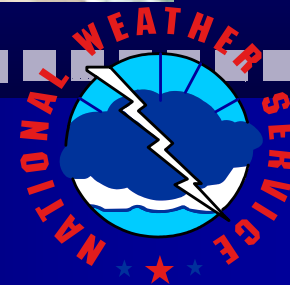


Tsunami Evacuation Areas

(Regional Defined Baseline)

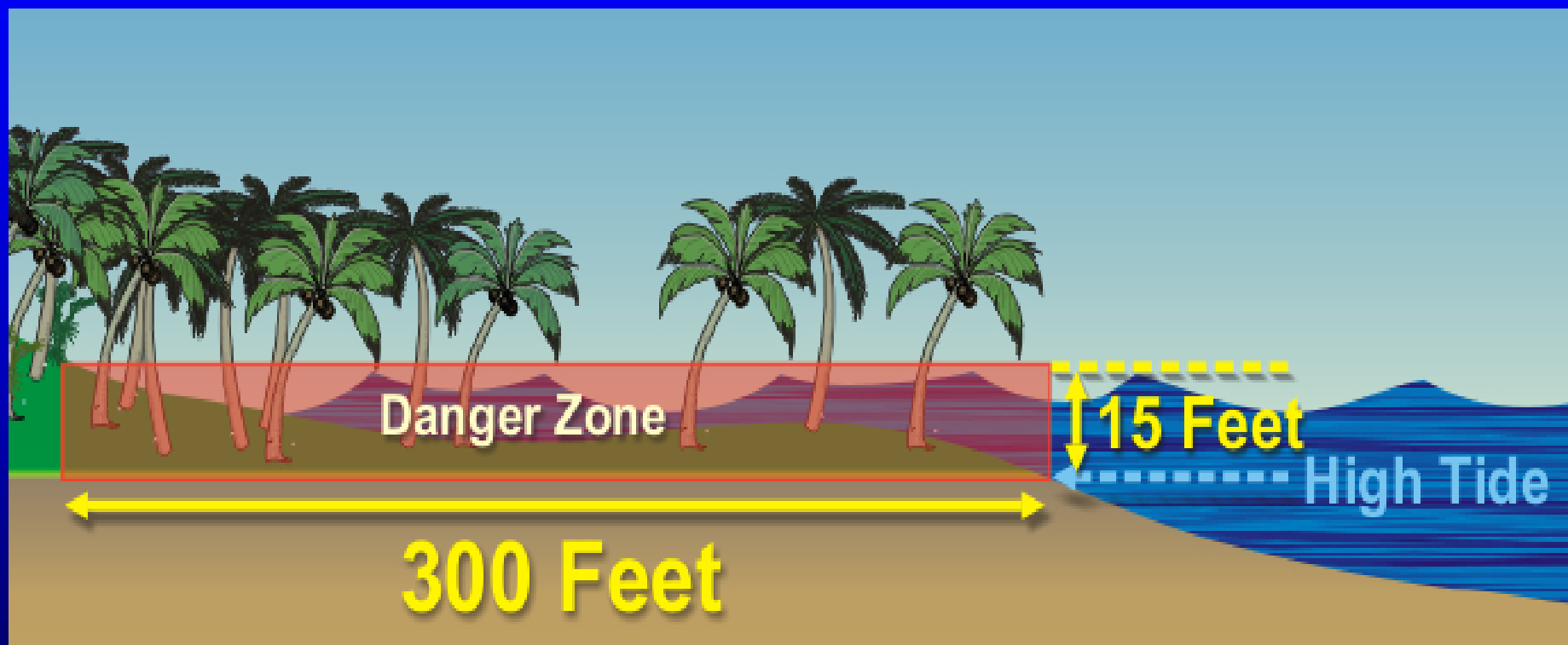


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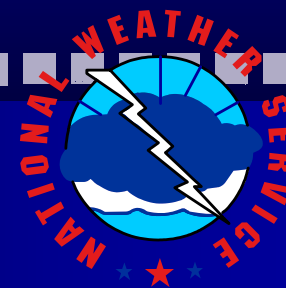


Tsunami Evacuation Areas

(Regional Defined Baseline)



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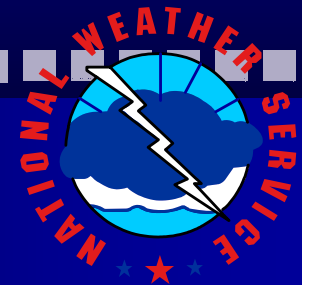
NWS SR Internet Site

www.srh.weather.gov

- Serves as one-stop source of weather info.
- Developed with both partners and public in mind.
 - **Easy navigation**
 - **Data given in the manner you need it.**
- Increases public awareness and response to valuable NWS 24 x 7 products and services.

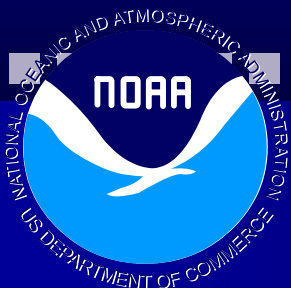


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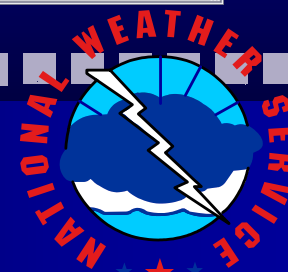


NWS SR Internet Site

- Forecasts obtained by either **postal zip code**, **city/state search**, or by **point and click map**
- Weather Information in clear, concise format
- Emphasizes local WFO expertise



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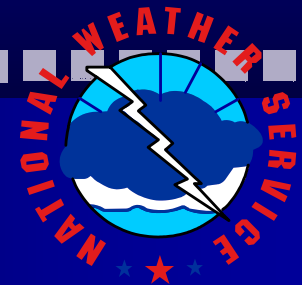


River Forecast Centers

- 13 RFC's Nationwide
- 4 RFC's Serving Texas
- From the SR internet site, Click on **River Forecast Center** Tab
- River Status and Precipitation Information

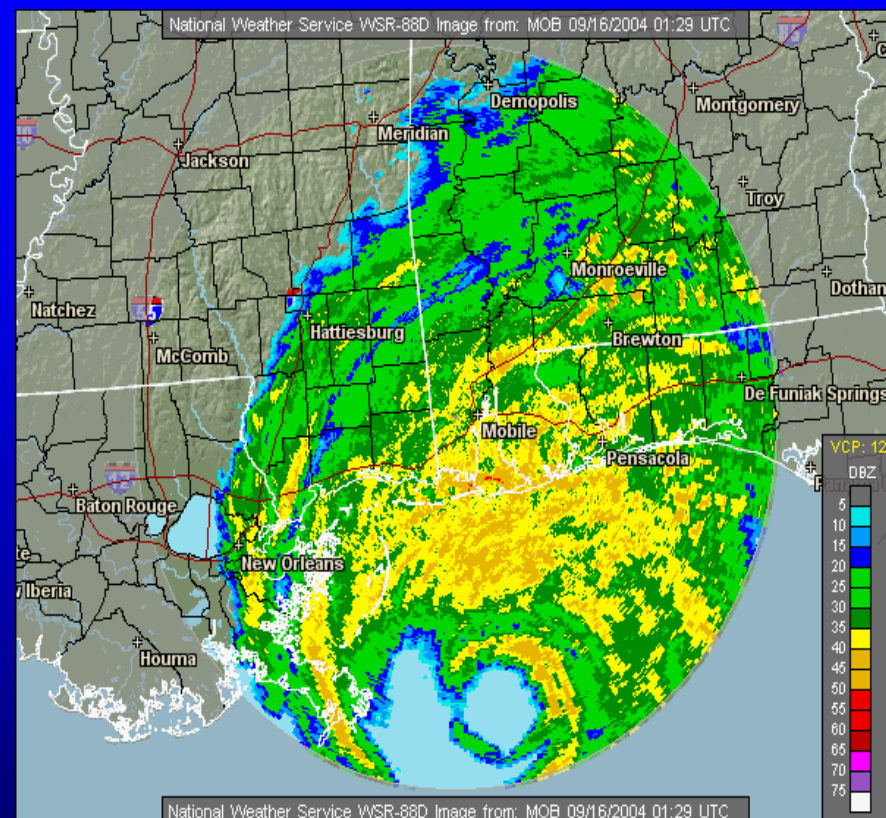


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New GIS Radar Imagery

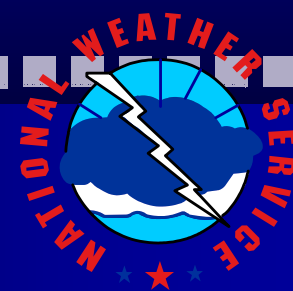
- Available as time loops for Weather Service Radars
- New GIS Topographic Base Map
- Provides real time storm, movement, precipitation and now, *velocity* data!



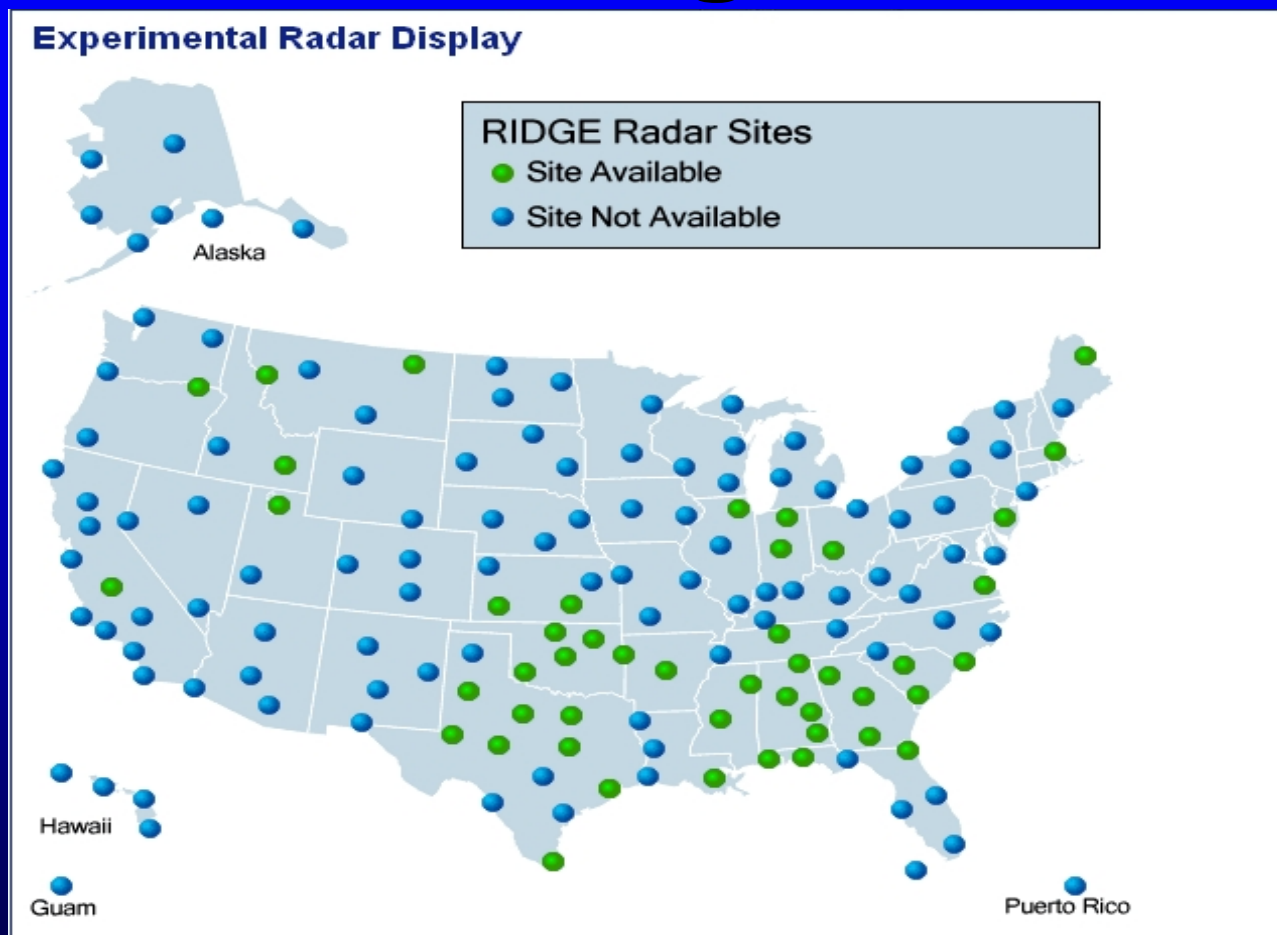
www.srh.weather.gov/ridge



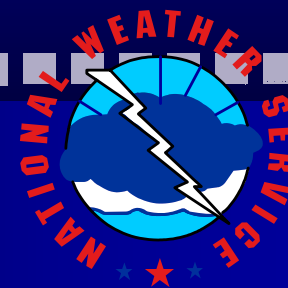
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New Radar Images



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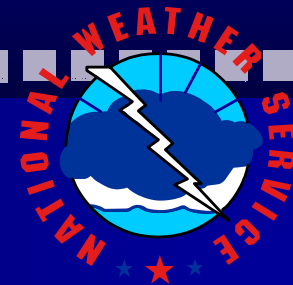


Local Convective Watches

- **Watch County Notification (WCN) Product**
 - **County Specific** - Tornado & Severe Thunderstorm (convective) Watches from your local experts at the WFO.
 - **Updates** - Expansion and cancellation of Watches by counties from your local WFO.
 - **Status** – Now testing! Operational **Nov 2005**.

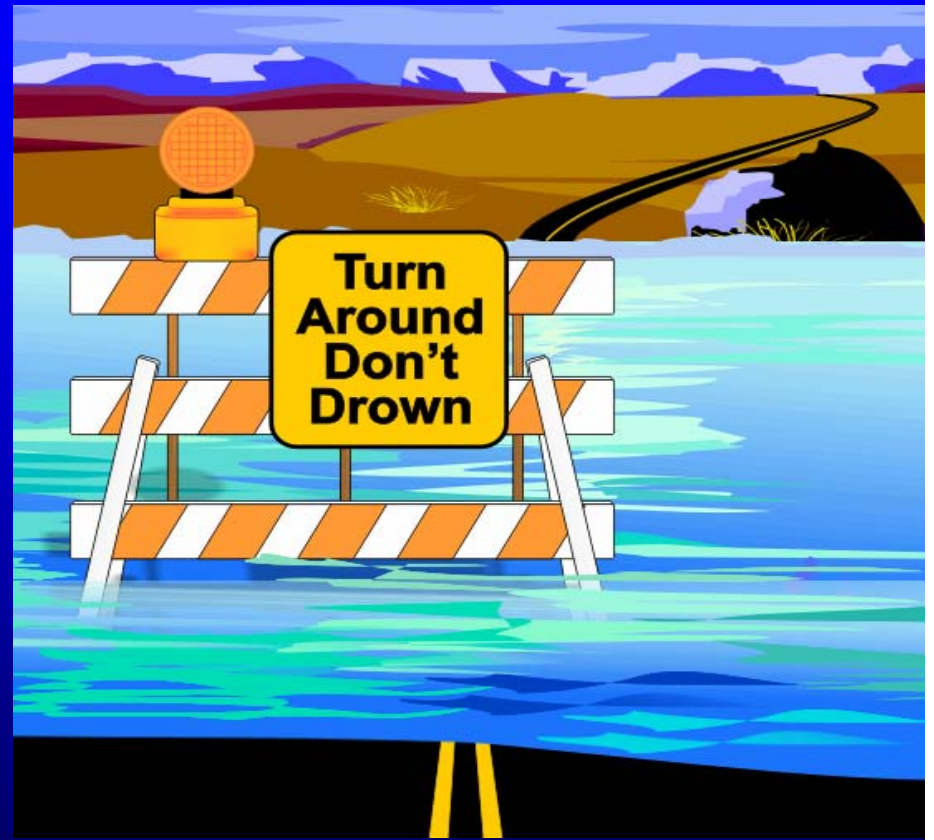


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Turn Around Don't Drown™

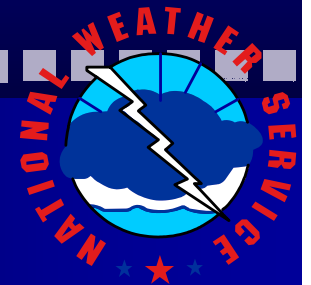
- Flood Safety Campaign.
- 30+ local, regional, and national partners.
- *A Southern Region initiative, now National!*
- The national 30-year average for flood deaths is 127.



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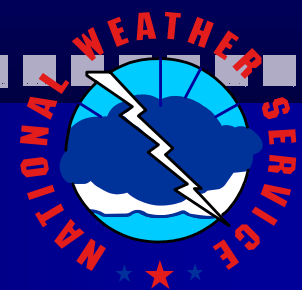


StormReady®

- Start in Tulsa – 1998
- 867 nationwide sites
- Improves community weather preparedness
- *A Southern Region initiative, now National!*

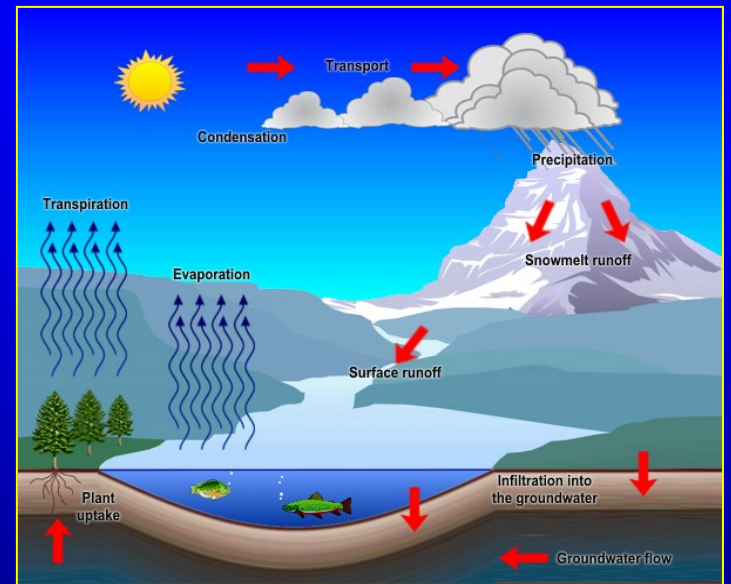


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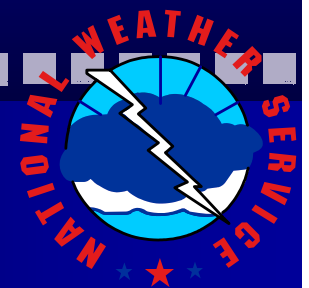
Project JETSTREAM

- A weather learning tool for EMs, media, teachers, students, public, aviation and marine communities.
- Includes weather preparedness & safety tips.
- Includes all weather from thunderstorms to winter storms.
- *A Southern Region initiative, now National!*



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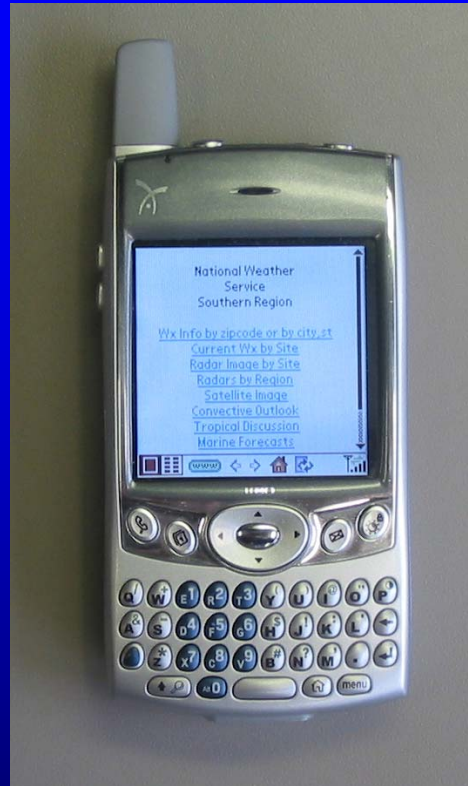
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Mobile Weather

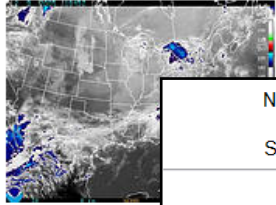
All the weather info
you need is now
available on mobile
devices!

*A Southern Region
Initiative!*



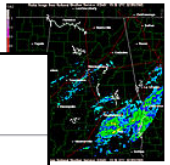
National Weather Service
Southern Region

GOES Eastern US IR



National Weather Service
Southern Region

Radar: kbmh
Birmingham, AL
01:36 PM CST Wed Feb 09 2005



National Weather Service
Southern Region

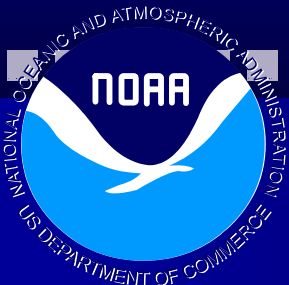
Fort Worth, TX
Current Local Conditions at:
Dallas / Fort Worth International Airport
Last Update: 02/09/05, 12:53 PM CST
Mostly Cloudy: 43 °F

[Loop Satellite For Wide Pa](#)

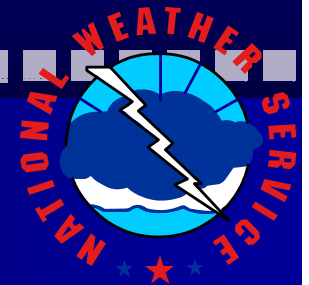
[Forecast at a Glance](#)
[Detailed 7-day Forecast](#)
[Your Local Radar](#)
[Current Conditions](#)
[Satellite Image](#)
[Hazardous Weather](#)
[Area Forecast Discussion](#)

[Radar Image](#)
[Storm Totals](#)
[Page Mode](#)

www.srh.weather.gov/wml



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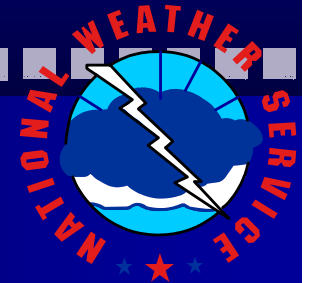
The Future of the NWS

Improvement will be through –

“mesoscale (local scale) weather & climate information, modeling, forecasts and warnings ”



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**“...government closest to the people,
governs best.”**

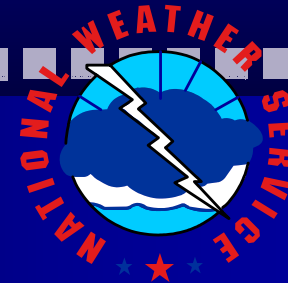
- President George W. Bush

As epitomized by the NWS:

**...government closest to the people,
serves best!**



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Questions?

Bill.Proenza@noaa.gov

(817) 978-1000

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At Left Margin Click on:

At Left Margin Click on:

Welcome from the Director

**“Southeastern Coastal &
Atmospheric Processes Symposium”**



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